

**WEST**

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(L4 AND L5).USPT,PGPB,DWPI.	34

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L6

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<u>L6</u>	14 and 15	34	<u>L6</u>
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<u>L4</u>	11 and 12 and 13	1674	<u>L4</u>
<u>L3</u>	slurry	197681	<u>L3</u>
<u>L2</u>	layers	1974175	<u>L2</u>
<u>L1</u>	filter same (cloth or fabric or textile)	26443	<u>L1</u>

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**Search Results - Record(s) 1 through 1 of 1 returned.**☒ 1. Document ID: US 5143628 A

L1: Entry 1 of 1

File: USPT

Sep 1, 1992

US-PAT-NO: 5143628DOCUMENT-IDENTIFIER: US 5143628 A

TITLE: Method of the dewatering of sludge

DATE-ISSUED: September 1, 1992

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bott; Reinhard	Waldbronn			DE
Kern; Robert	Weingarten			DE
Langeloh; Thomas	Muhlhausen			DE
Gross; Holger	Worth			DE

US-CL-CURRENT: 210/770; 100/122, 100/37, 210/225, 210/791

## ABSTRACT:

A sludge volume of difficult to dewater sludge is subdivided in a sludge dewatering press into fractional volumes which are self-draining even at press pressures of 50 bar and more. The partitions are water-permeable and form water channels for conducting the expressed liquid away from the sludge volume.

10 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full Title

CLS.1

SEQ.1 ATT.1

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Term	Documents
"5143628".USPT.	1
5143628S	0
"5143628".USPT.	1
(5143628).USPT.	1

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L6: Entry 1 of 1

File: DWPI

Jan 23, 1997

DERWENT-ACC-NO: 1997-088226

DERWENT-WEEK: 199709

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TITLE: Filter cloth for filter presses - comprises multilayer woven material having inner layer of stranded metal wire and outer layers of spun plastic threads

INVENTOR: GRAFF, W

PRIORITY-DATA: 1995DE-1026458 (July 20, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE <u>19526458</u> A1	January 23, 1997		003	B01D039/08

INT-CL (IPC): B01 D 33/052; B01 D 39/08; B01 D 39/10; B30 B 9/10; B30 B 9/26

ABSTRACTED-PUB-NO: DE 19526458A

BASIC-ABSTRACT:

Liquids are removed from a fibrous material, e.g. chopped sugar cane, using a filter cloth comprising a multi-layer woven material (12) with an outer layer (13,15) of multi-filament threads (22) and at least one inner layer (14) of bunched or twisted monofilament threads (23). The inner layer pref. consists of stranded metal wires and the material has at least three layers with outer layer threads in warp (19,20,21) and weft (16,17) of spun plastic fibres. The dia. of the monofilament threads is pref. at least eight times larger than the dia of the individual fibres of the multifilament threads.

ADVANTAGE - Moisture is almost completely removed from the filter cake.

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L7: Entry 1 of 3

File: DWPI

Jun 25, 1992

DERWENT-ACC-NO: 1992-209197

DERWENT-WEEK: 199226

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TITLE: Sludge dewatering press - includes sludges receiving chamber contg. pressure piston, enabling braking up of caked sludge and draining of filtrate

INVENTOR: GROSS, H

PRIORITY-DATA: 1991DE-4111973 (April 12, 1991)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE <u>4111973</u> C	June 25, 1992		006	C02F011/12

INT-CL (IPC): B01D 25/12; B01D 25/133; B30B 9/04; C02F 11/12

ABSTRACTED-PUB-NO: DE 4111973C

## BASIC-ABSTRACT:

Sludge dewatering press has a sludge receiving chamber contg. a pressure piston acting on the sludge, which is sepd. into volumes by flexible sepg. strands. The strands (5) consist of outer solids retaining layers (7) and a filtrate discharging layer (8), covered by at least one of the outer layers. Layers consist of woven or knitted cloth. The strands act at the same time as drainage strands.

ADVANTAGE - Combined action of breaking up sludge cake and drawing off filtrate is obtd.